

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-6. Cancelled.

7. (Previously Presented) ) An MRI apparatus which comprises an MRI shim coil having one or more coil sections containing a plurality of layers of windings made of insulated conductor, each layer having a plurality of layers of windings made of insulated conductor, each layer having a plurality of turns, wherein said one or more coil sections are each wound in two or more sub-sections, each sub-section of a coil section incorporating some or all of said plurality of layers, and having fewer turns per layer than the coil section of which it forms a part whereby reduction of a self-resonant frequency of the shim coil can be reduced.

8. (Previously Presented) An MRI apparatus as in claim 7 wherein insulating material is disposed between each layer of turns in addition to insulation otherwise disposed about each said insulated conductor.

9. (Previously Presented) An MRI apparatus as in claim 8 wherein the insulating material is glass cloth.

10-16. Cancelled.